PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR EURTHER ACT	ION	D. F. DOTIDEA/440						
2004.831 WO	FOR FURTHER ACT		See Form PCT/IPEA/416						
International application No. PCT/EP2005/050833	International filing date (day 28.02.2005	y/month/year)	Priority date (day/month/year) 05.03.2004						
International Patent Classification (IPC) or no	International Patent Classification (IPC) or national classification and IPC								
A61K31/4245, C07D413/04, C07D413/14, A61P29/00, C07D403/04, A61K31/454, A61K31/4196, C07D417/04, C07D498/06, A61K31/5383, C07D417/14, A61K31/427, A61K31/422, C07D513/04, A61K31/425, A61K31/42, C07D409/04, A61K31/404									
Applicant									
AKZO NOBEL N.V. et al.									
This report is the international pre Authority under Article 35 and trar	liminary examination repo	rt, established by this ccording to Article 36.	International Preliminary Examining						
2. This REPORT consists of a total of	of 6 sheets, including this	cover sheet.							
3. This report is also accompanied b	y ANNEXES, comprising:								
a. sent to the applicant and to									
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
☐ sheets which supersed beyond the disclosure Supplemental Box.	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the								
b. (sent to the International B	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental								
Box Relating to Sequence	Listing (see Section 802 o	of the Administrative Ir	nstructions).						
4. This report contains indications re	lating to the following item	ns:							
☑ Box No. 1 Basis of the opin	nion								
☐ Box No. II Priority									
⊠ Box No. III Non-establishm	ent of opinion with regard	to novelty, inventive s	step and industrial applicability						
☐ Box No. IV Lack of unity of									
☐ Box No. V Reasoned state applicability; cita	ment under Article 35(2) w ations and explanations su	vith regard to novelty, upporting such statem	inventive step or industrial ent						
☐ Box No. VI Certain docume	nts cited								
☐ Box No. VII Certain defects	in the international applica	ation							
☐ Box No. VIII Certain observa	tions on the international a	application							
		Date of completion of this	ronort						
Date of submission of the demand		date of completion of this	report						
08.08.2005	З	31.01.2006							
Name and mailing address of the internation	al A	Authorized Officer	nathas Patenten.						
preliminary examining authority: ———— European Patent Office			South M. I						
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/050833

10/590674

	Box No. I	Basis of the report	IAPS Rec'd PCT/PTO 2 6 AUG 2006
1.	With regard	d to the language , this report is based as otherwise indicated under this item.	on the international application in the language in which it wa
	☐ This rewhich	eport is based on translations from the is the language of a translation furnisl	original language into the following language , ned for the purposes of:
	☐ pub	ernational search (under Rules 12.3 a blication of the international application ernational preliminary examination (un	n (under Rule 12.4)
2.	have been	d to the elements* of the international furnished to the receiving Office in re originally filed" and are not annexed to	application, this report is based on (replacement sheets which sponse to an invitation under Article 14 are referred to in this this report):
	Description	n, Pages	
	1-56	as originally filed	
	Claims, Nur	mbers	
	1-10	as originally filed	
	□ a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.		mendments have resulted in the cance description, pages	ellation of:
		claims, Nos. drawings, sheets/figs	
	☐ the	sequence listing (specify): y table(s) related to sequence listing (s	specify):
4.	had not bee	eport has been established as if (some en made, since they have been considerated that the properties of the properties	e of) the amendments annexed to this report and listed below dered to go beyond the disclosure as filed, as indicated in the
	☐ the ☐ the	description, pages claims, Nos. drawings, sheets/figs sequence listing (specify):	
		table(s) related to sequence listing (s	specify):
	* Tf it:	em 4 applies, some or all of	these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/050833

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
1.	The	e questions whether the claimed rious), or to be industrially applic	l inve cable	ntion appears to be novel, to involve an inventive step (to be non-have not been examined in respect of:			
[the entire international application,					
[Ø	declaims Nos. 10 with respect to industrail applicability					
		because:					
ľ	the said international application, or the said claims Nos. as above relate to the following subject which does not require an international preliminary examination (specify):						
		see separate sheet					
[the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
[the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
E		no international search report has been established for the said claims Nos.					
[the nucleotide and/or amino acid sequence listing does not comply with the standard provided for i C of the Administrative Instructions in that:			quence listing does not comply with the standard provided for in Annex in that:			
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
C		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
[See separate sheet for further	detai	ls			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/050833

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No:

: Claims

Inventive step (IS)

Yes: Claims

1-10

No: Claims

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item III

Claim 10 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(I) PCT).

Z

Re Item V

1. Reference is made to the following documents:

D1: WO-A-02 36590

D2: WO-A-04 00832

2. The subject-matter of the present claims is new (Article 33(2) PCT):

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The cannabinoid agonists of D1 differ from the present compounds in the substituent at position 1 of the indole ring (cf. definition of present R_1 with definition of Het and Z in R_5 of D1) and in the nature of substitution at the oxadiazole ring (see D1, definition of R_1).

The cannabinoid agonists of D2 differ from the present compounds in the definition of the substituent at position 3 of the indole ring.

3. Inventive step (Article 33(3) PCT)

The problem underlying the present application lies in the provision of further cannabinoid agonists (see p. 2, lines 12 - 13).

The cannabinoid agonists of D1 and D2 differ substantially in structure from the present compounds (see point 2). The present activity has been substantiated for a representative number of compounds (see Table 1). An inventive step can therefore be acknowledged.

4. Industrial applicability (Article 33(4) PCT)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2005/050833

For the assessment of the present claim 10 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.